

Listing of Claims:

Claims 1-18 (Canceled)

19. (New) An optical fiber suitable for use in a dispersion managed transmission line, which has a ratio of a dispersion to a dispersion slope being positive at a wavelength of 1550 nm, a positive dispersion of 14 to 24 ps/nm/km in a wavelength band of 1530 to 1570 nm, a positive dispersion slope of not more than 0.08 ps/nm²/km in a wavelength band of 1530 to 1570 nm, a transmission loss of not more than 0.25 dB/km at a wavelength of 1550 nm, an effective core area of not less than 95 μm^2 at a wavelength of 1550 nm, a bending loss of 20 dB/m or less at a bending diameter of 20 mm and at a wavelength of 1550 nm, and a polarization mode dispersion of 0.15 ps/km^{1/2} or less at a wavelength of 1550 nm, and which operates in a single mode in a wavelength band of 1530 to 1570 nm.

20. (New) An optical transmission line comprising the optical fiber recited in claim 19.

21. (New) An optical fiber suitable for use in a dispersion managed transmission line, which has a ratio of a dispersion to a dispersion slope being positive at a wavelength of 1550 nm, a positive dispersion of 14 to 24 ps/nm/km in a wavelength band of

- 5 1530 to 1570 nm, an effective core area of not less than $90 \mu\text{m}^2$ at a wavelength of 1550 nm, and a bending loss of 20 dB/m or less at a bending diameter of 20 mm and at a wavelength of 1550 nm.

22. (New) An optical transmission line comprising the optical fiber recited in claim 21.

23. (New) An optical fiber suitable for use in a dispersion managed transmission line, which has a ratio of a dispersion to a dispersion slope being positive at a wavelength of 1550 nm, a positive dispersion of 14 to 17 ps/nm/km in a wavelength band of 1530 to 1570 nm, a positive dispersion slope of not more than 0.08 ps/nm²/km in a wavelength band of 1530 to 1570 nm, a transmission loss of not more than 0.25 dB/km at a wavelength of 1550 nm, an effective core area of not less than $90 \mu\text{m}^2$ at a wavelength of 1550 nm, a bending loss of 20 dB/m or less at a bending diameter of 20 mm and at a wavelength of 1550 nm, and a polarization mode dispersion of 0.15 ps/km^{1/2} or less at a wavelength of 1550 nm, and which operates in a single mode in a wavelength band of 1530 to 1570 nm.

24. (New) An optical transmission line comprising the optical fiber recited in claim 23.